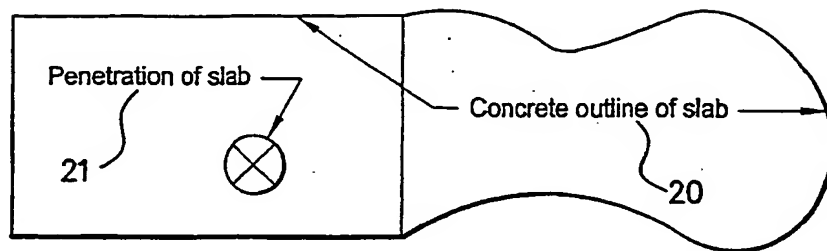
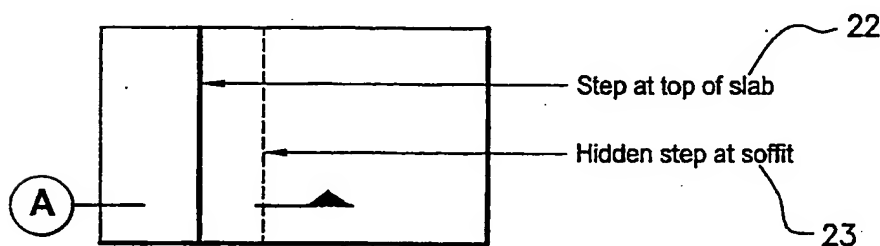
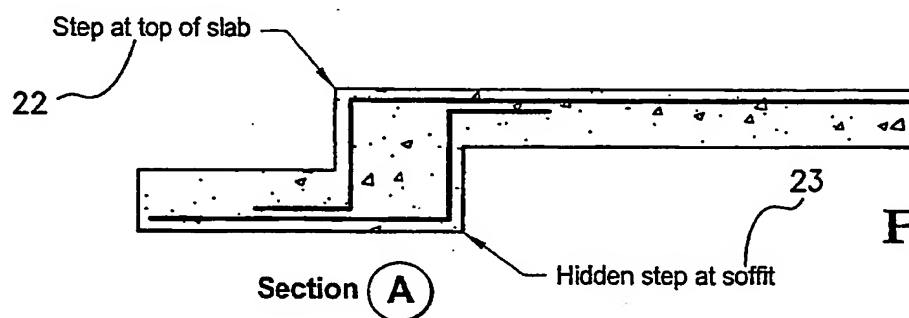
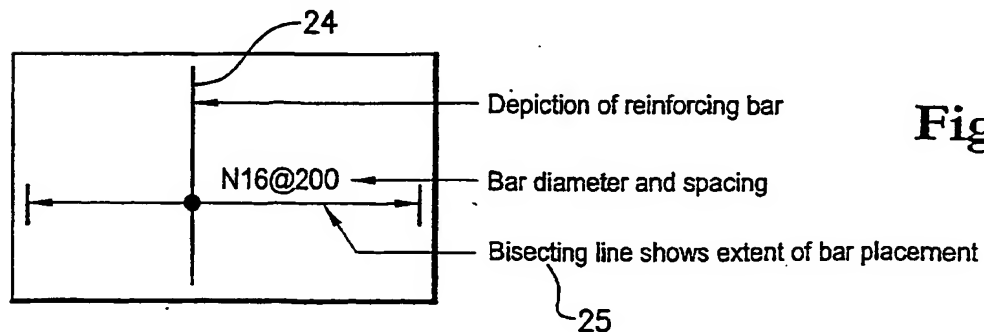


Fig. 1

**Recognition of concrete outline****Fig. 2****Recognition of steps in slab****Fig. 3****Fig. 4****Recognition of text - bar dia, spacing****Fig. 5**

Bar spacing recognition via table

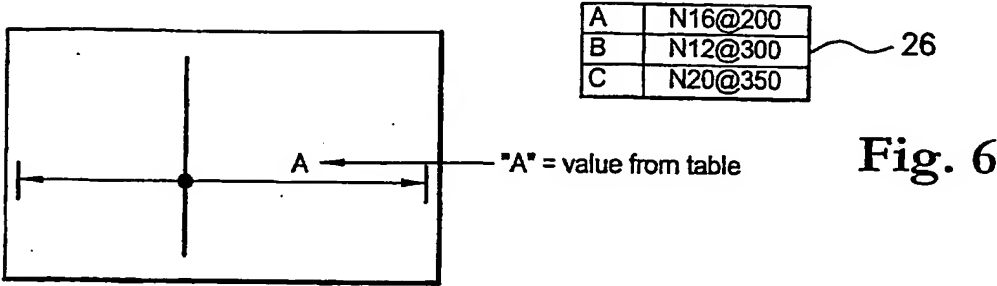


Fig. 6

Data input situations

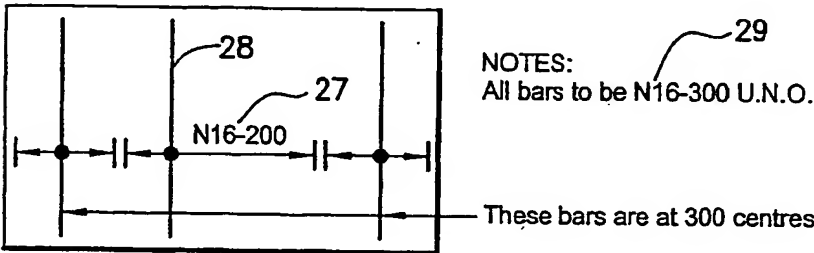


Fig. 7

Bar shape indentification

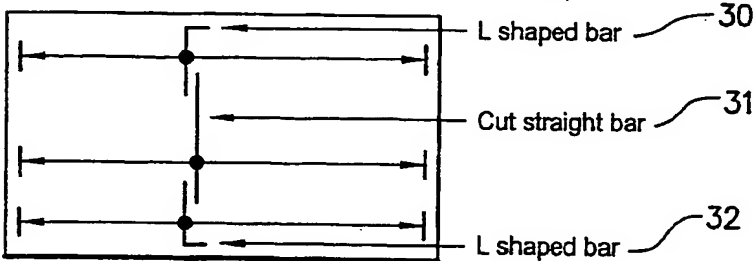


Fig. 8

Extent of each bar range

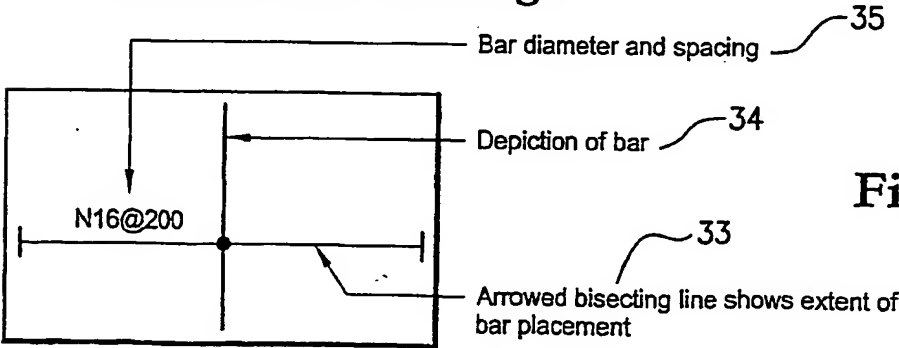
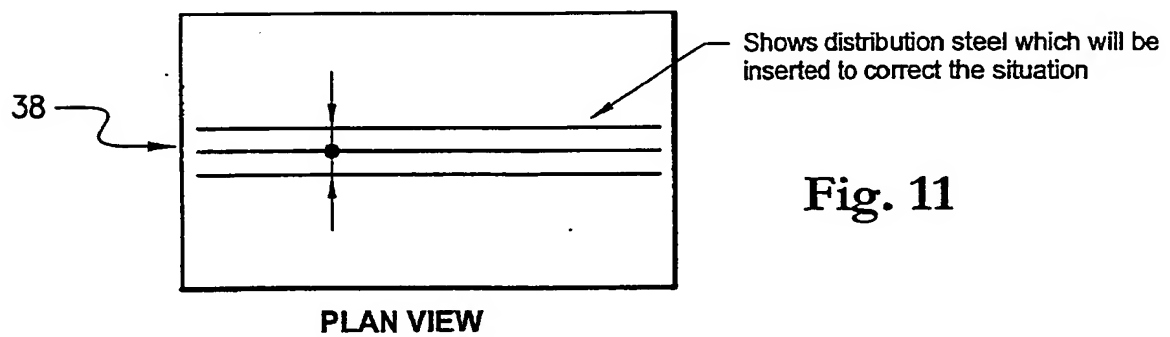
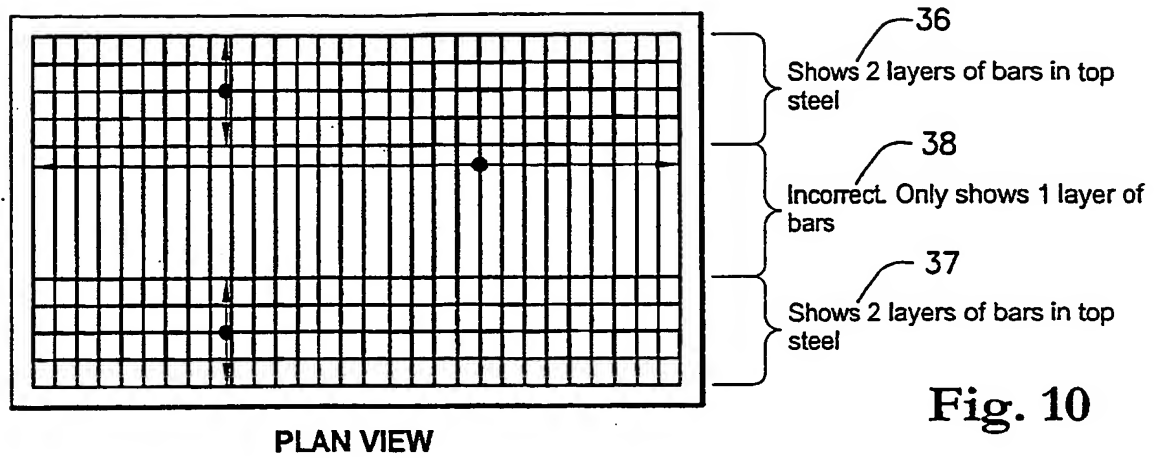
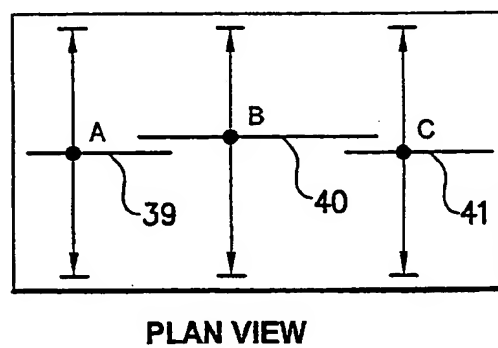


Fig. 9

## Recognition of distribution steel

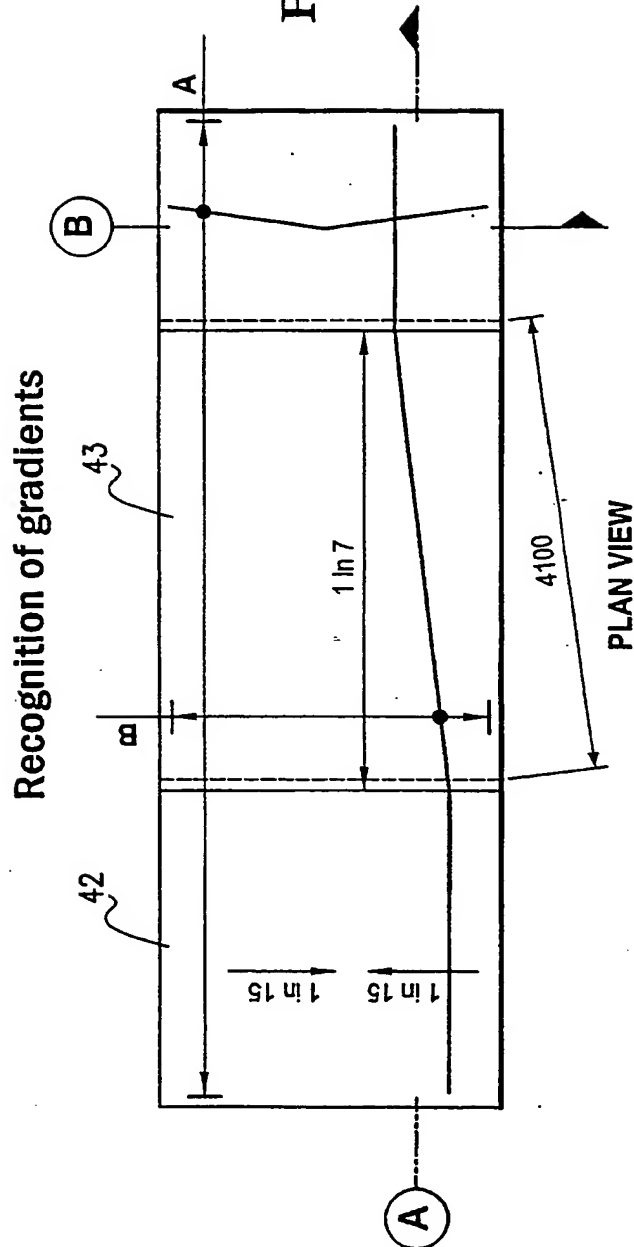


## Bar lapping recognition

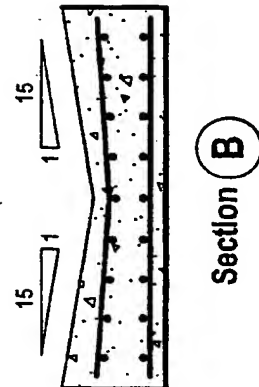


$$\begin{array}{c}
 \text{lap} \quad \text{lap} \\
 a \text{---} A \text{---} b \quad B \quad e \text{---} C \text{---} f \\
 \quad \quad c \text{---} \quad \quad \quad d \\
 B = ad - ab + \text{lap}
 \end{array}$$

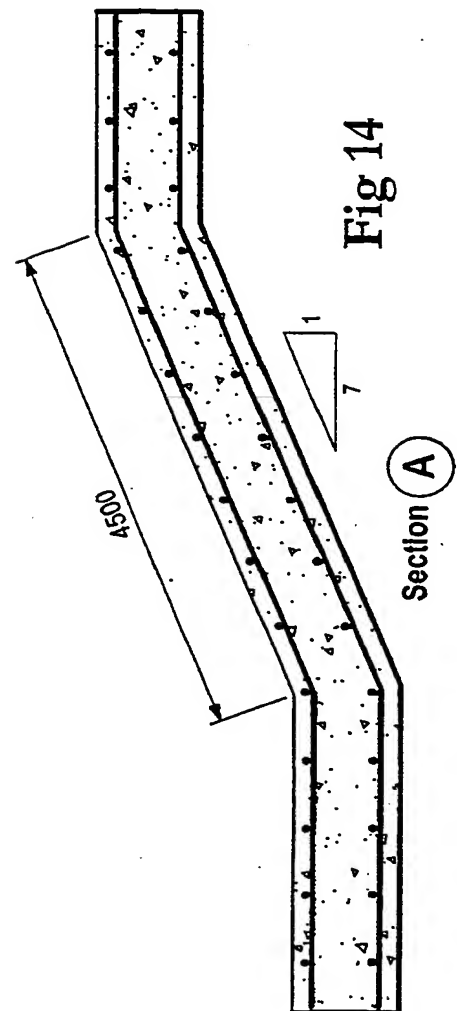
**Fig 13**

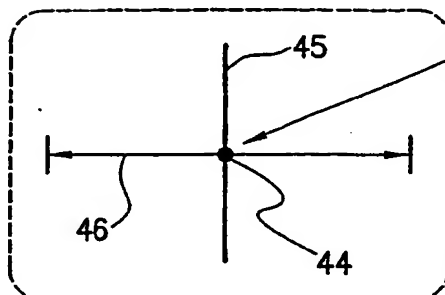


**Fig 15**

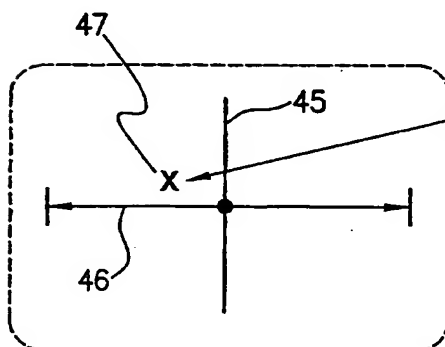


**Fig 14**

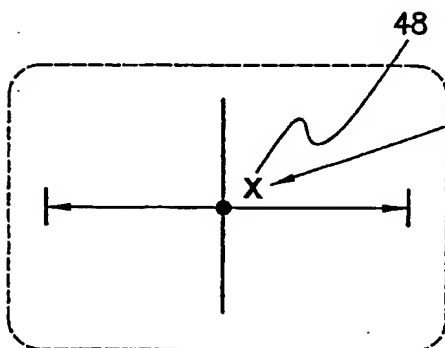


**Default bar mark placement**

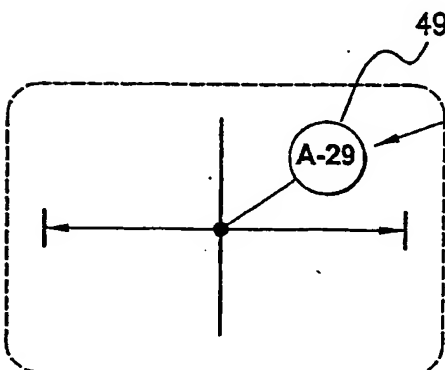
Barmarks to be placed by using the conjunction point of where the bisecting line crosses the depicted bar.

**Fig 16**

Selection point which can be moved around field. Its placement determines final position of barmark.

**Fig 17**

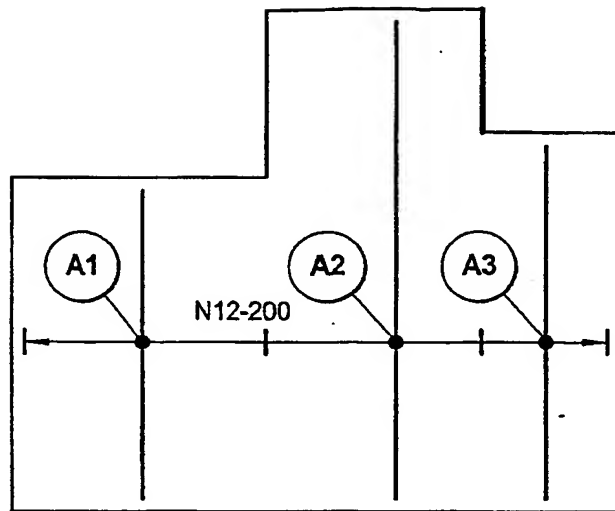
Depicts chosen position of barmark.

**Fig 18**

Shows bar label applied to drawing as per instructions.

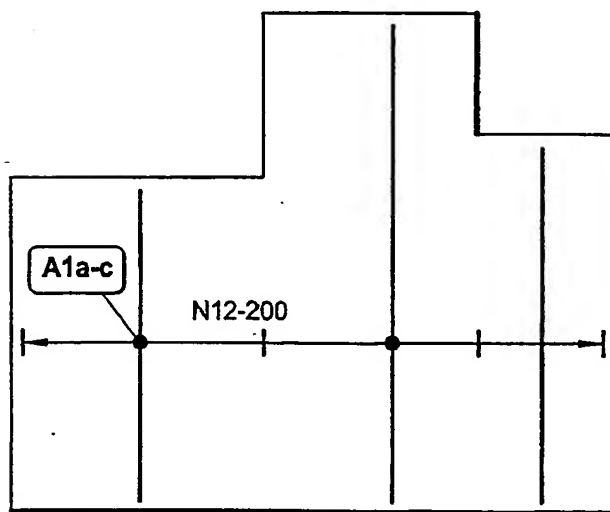
**Fig 19**

## Bar marking



Too many barmarks offered for what is the one bar range

**Fig 20**



Barmarks rationalised

**Fig 21**

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## Scheduling distribution steel

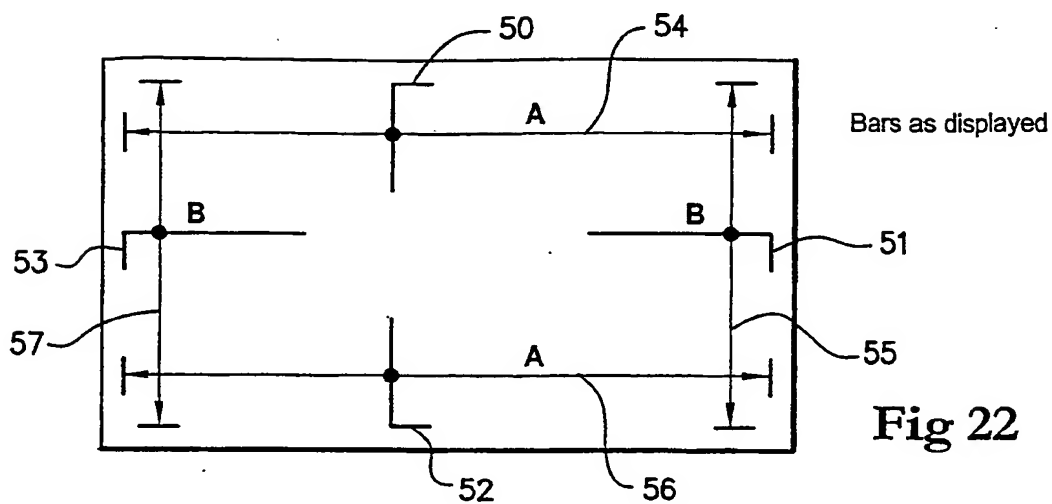


Fig 22

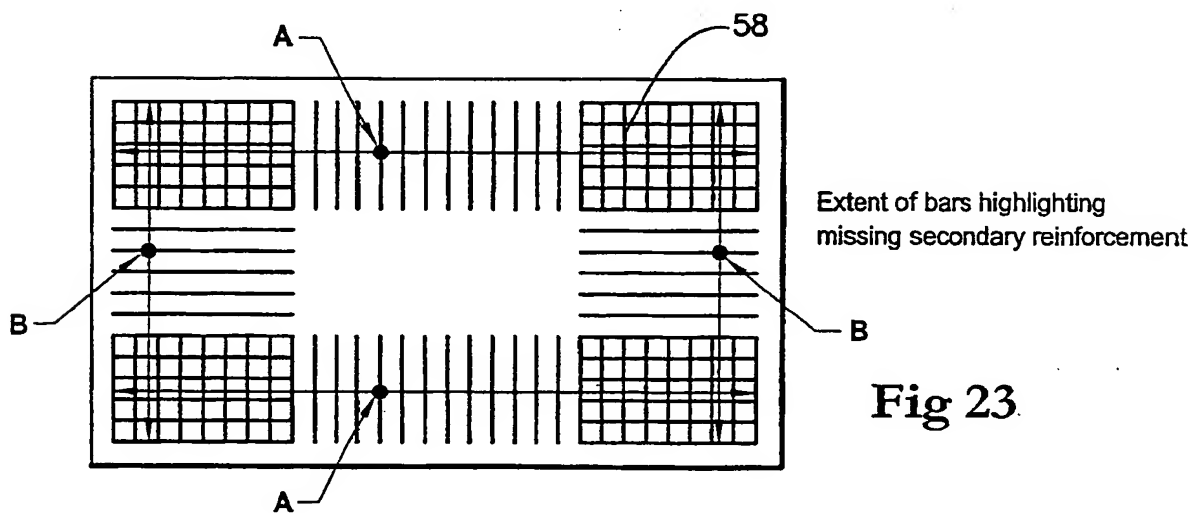


Fig 23

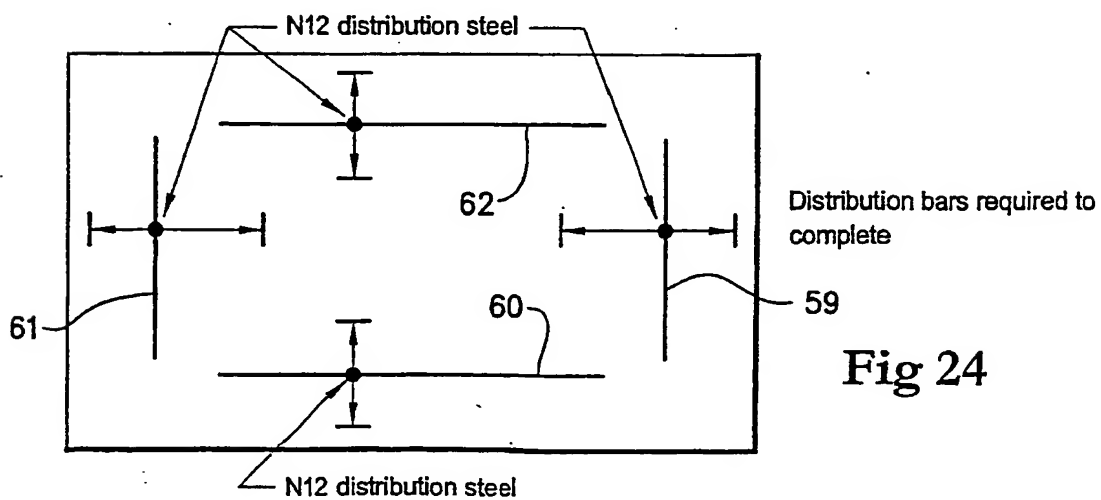
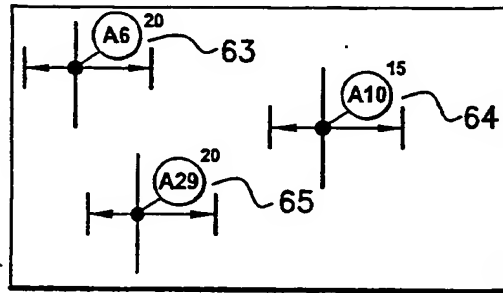


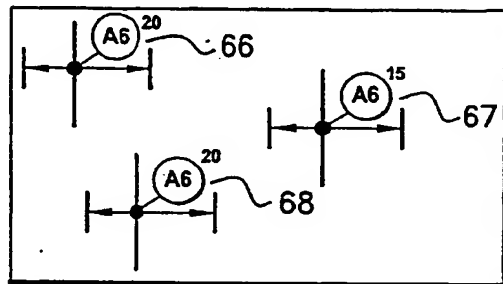
Fig 24



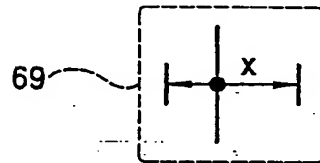
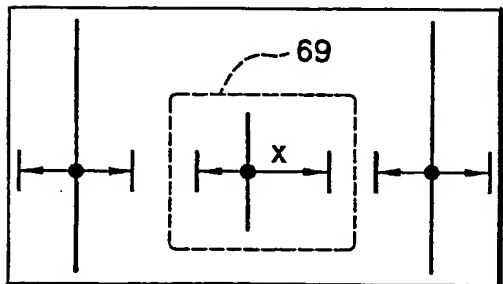
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**Bar bundle rationalisation**

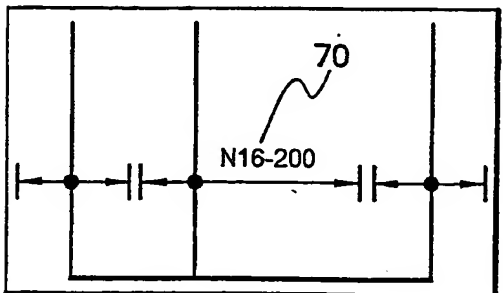
Bars identified for rationalisation

**Fig 25**

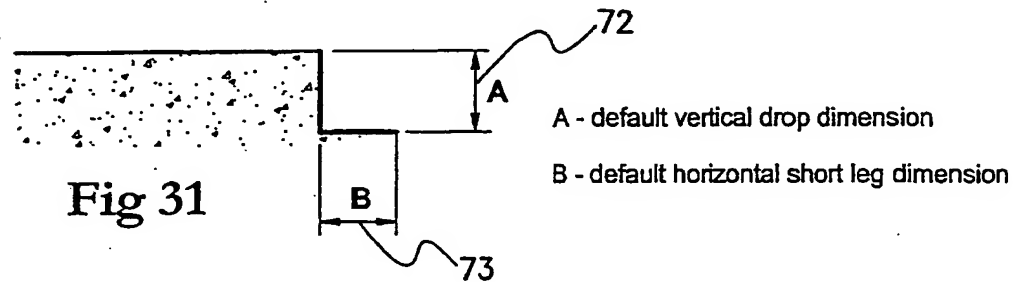
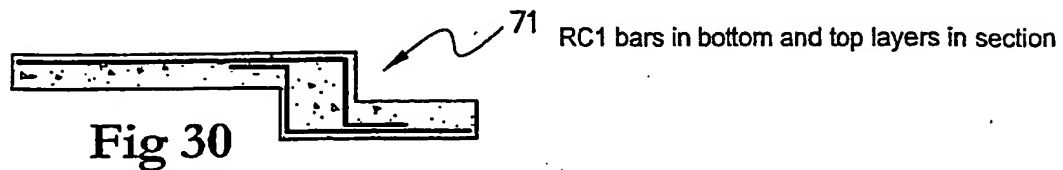
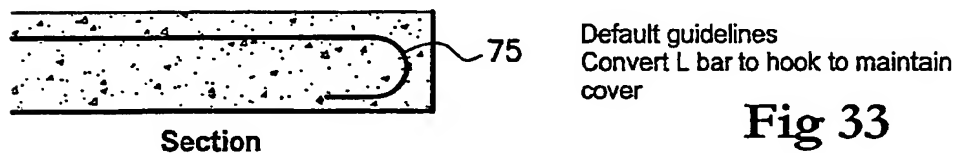
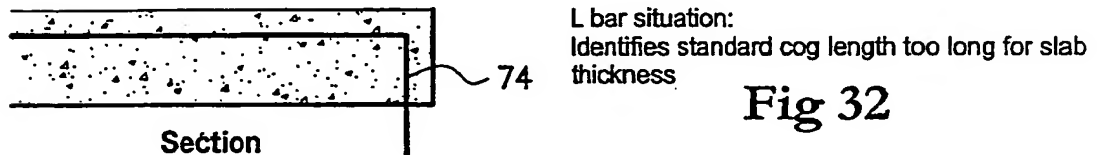
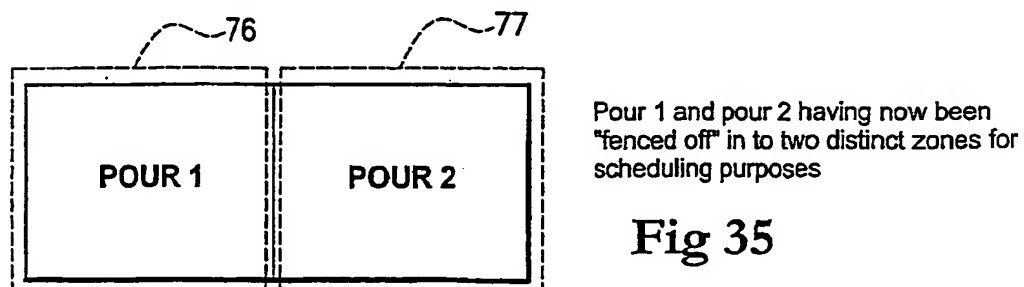
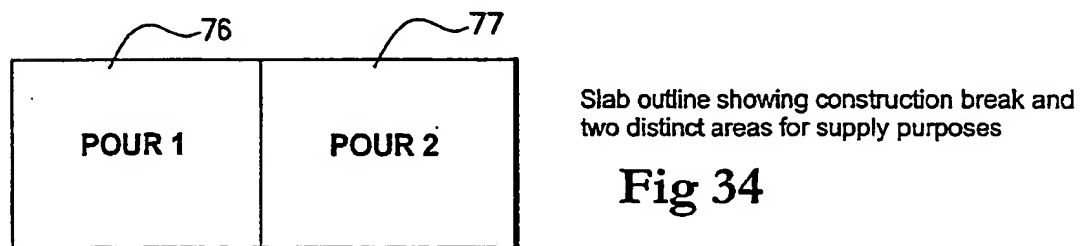
Bars rationalisation process

**Fig 26****Inserting bar function****Fig 27**

Dropped into place

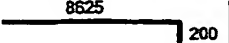
**Fig 28**Manipulate bar length, shape, extent  
and spacings as required**Fig 29**

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**RC1 drop dimension default****Default guidelines for L bars****Fencing off slab areas**

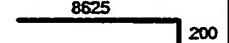
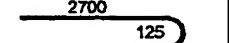
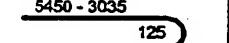
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## Slab + scheduling window

Line	Mark	Remarks	Qty	Spacing	Bar	Code	Shape
1	A1a		40	250	N16	L0	

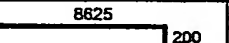
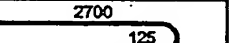
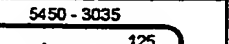
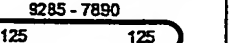
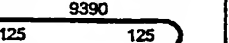
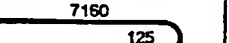
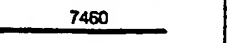
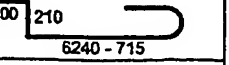

x 1 line

Fig 36

Line	Mark	Remarks	Qty	Spacing	Bar	Code	Shape
1	A1a		40	250	N16	L0	
2	A1b		20	250	N16	CH1	
3	A1cV		7	250	N16	CH1	

x 3 lines

Fig 37

Line	Mark	Remarks	Qty	Spacing	Bar	Code	Shape
1	A1a		40	250	N16	L0	
2	A1b		20	250	N16	CH1	
3	A1cV		7	250	N16	CH1	
4	A1dV		8	250	N16	CH2	
5	A1e		28	250	N16	CH2	
6	A1f		6	250	N16	CH1	
7	A1g		48	250	N16	C	
8	A2	Balcony	48	250	N16	RS7	
9	A3		134	250	N16	C	

Original

Fig 38

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## Scheduling reinforcing tophats and lacer bars

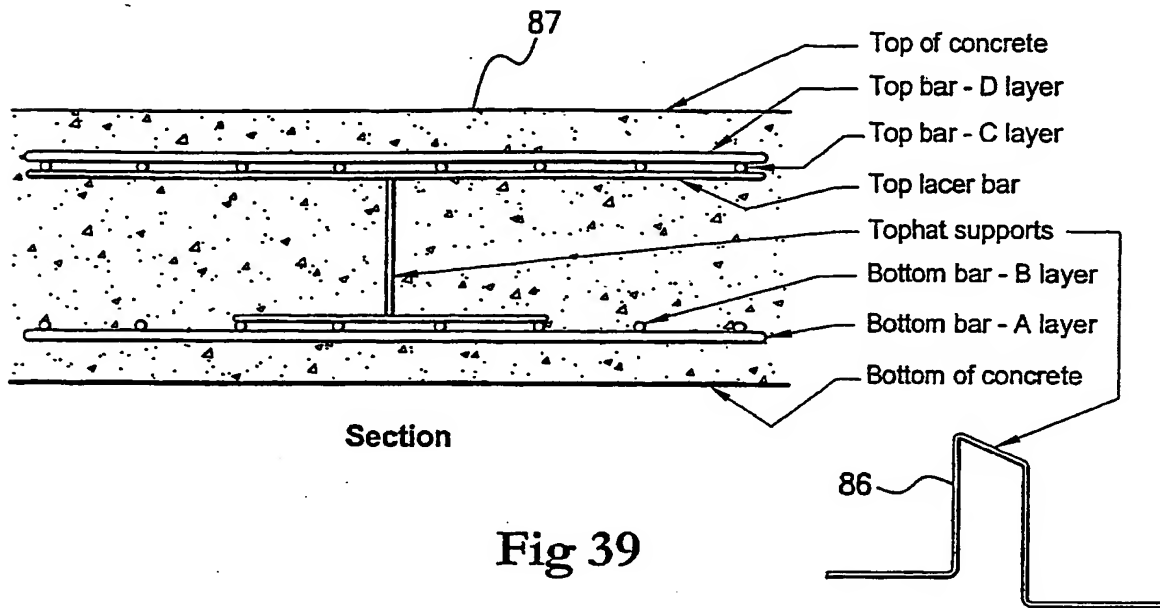
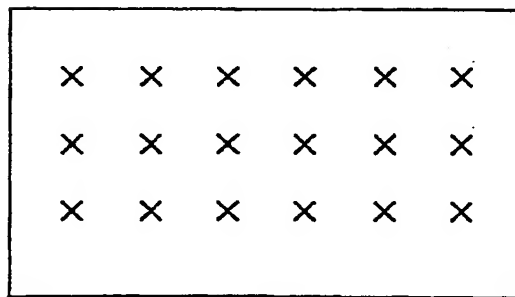
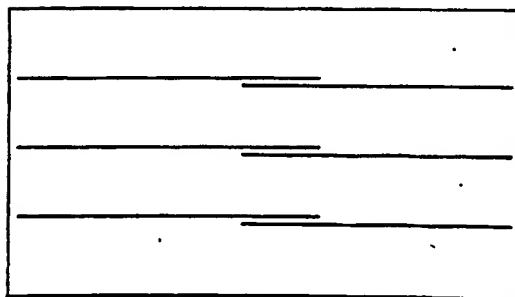


Fig 39



Indicates location of tophat positions  
as determined by chosen spacing ie.  
1200 centres

Fig 40



Indicates location of lacing bars located  
over tophat positions, utilising stock bar  
lengths, or bars cut to size

Fig 41

## Scheduling tilt panels

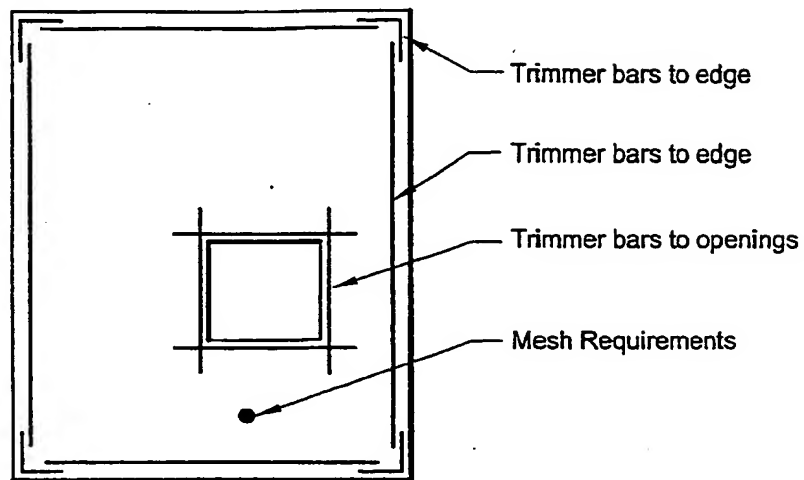


Fig 42

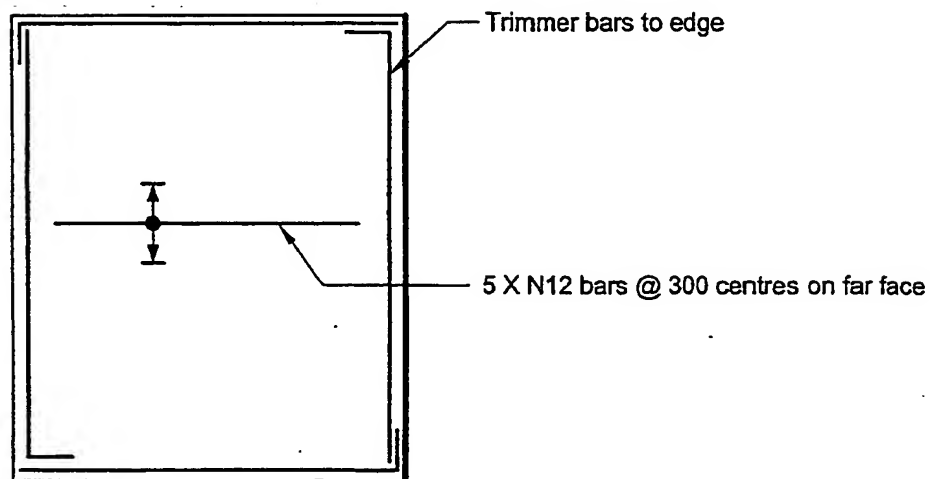
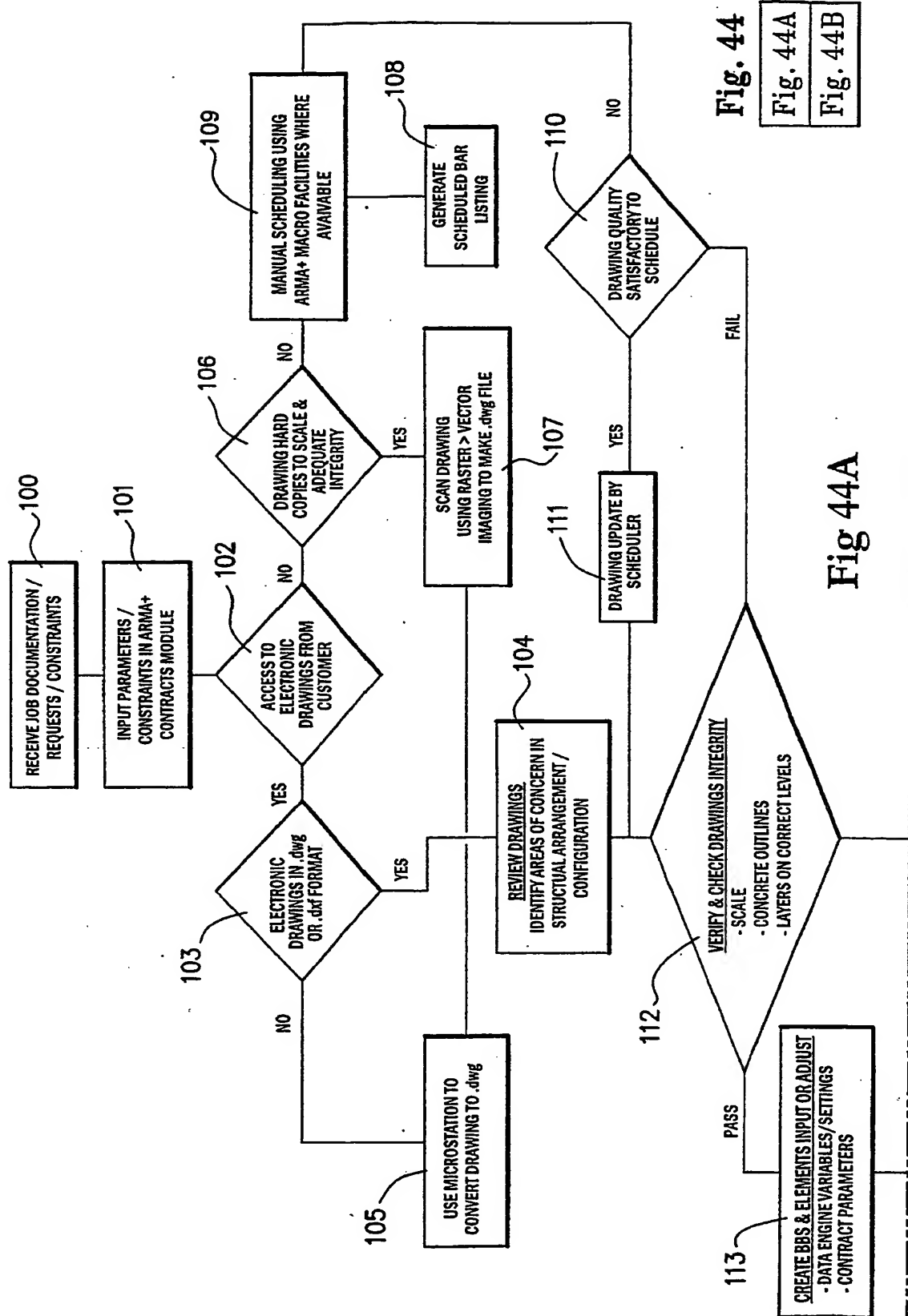


Fig 43

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## Flow chart - Slab+ and associated processes



## Flow chart - Slab+ and associated processes (Continued)

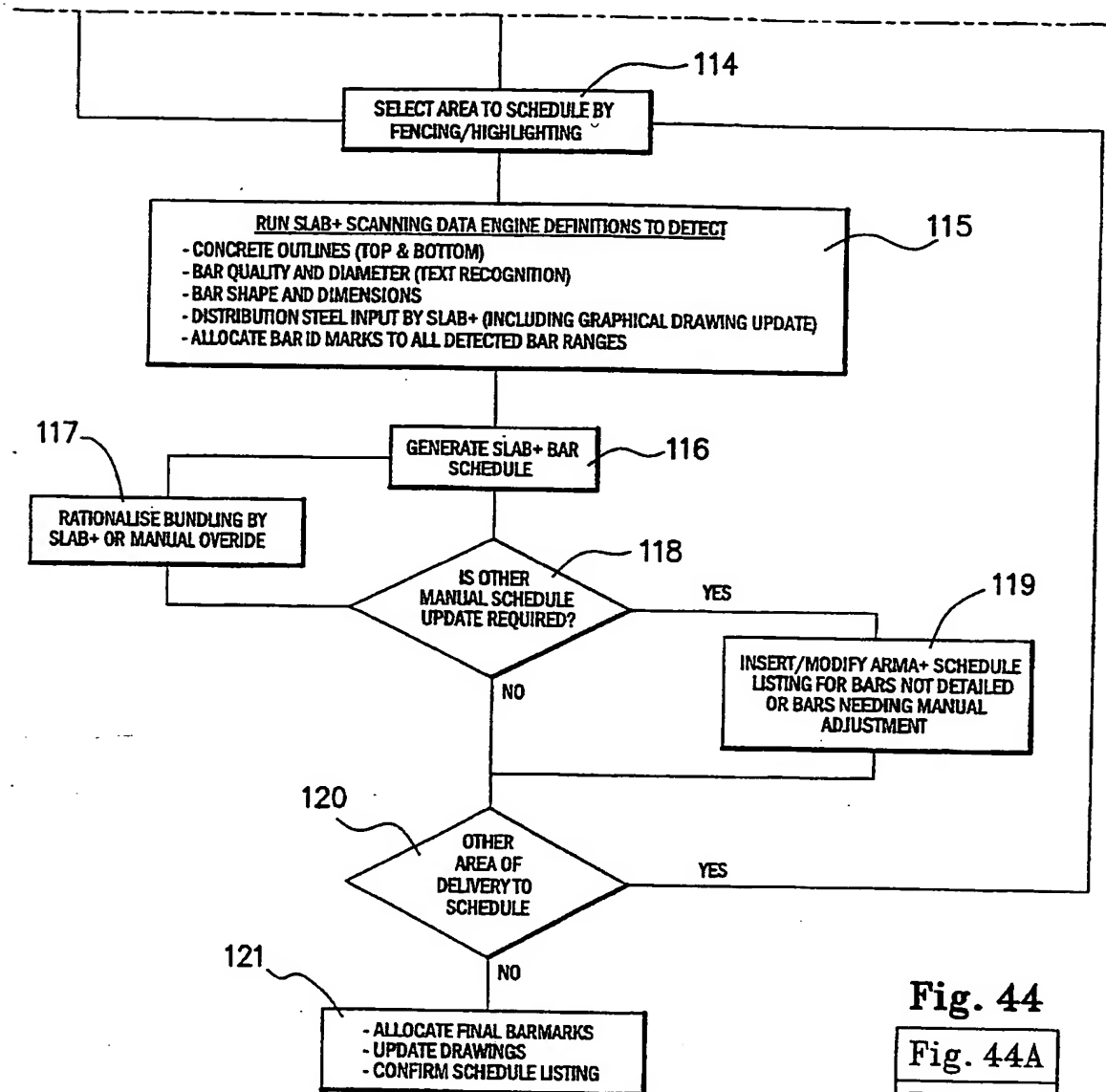


Fig. 44

Fig. 44A

Fig. 44B

Fig 44B

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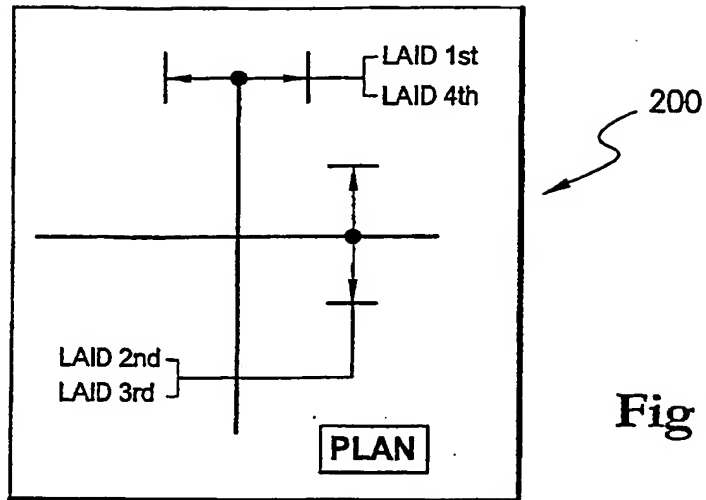


Fig 45

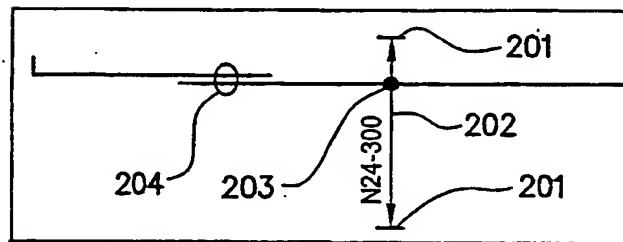


Fig 46

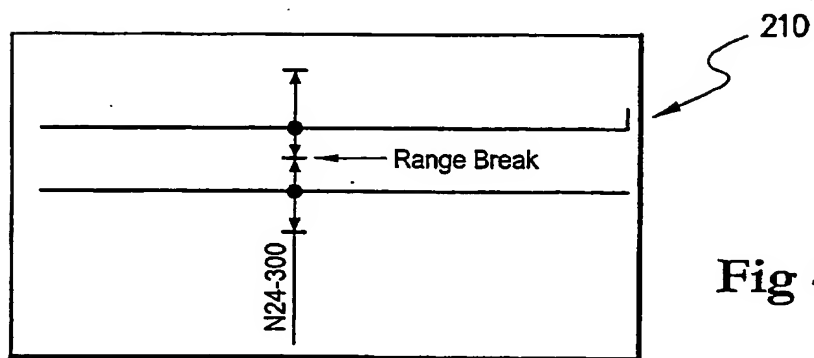


Fig 47

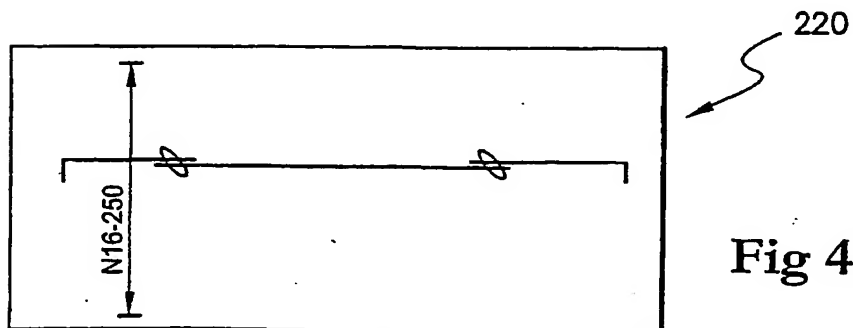


Fig 48